PRE-CERCLIS FIELD SCREENING CHECKLIST

1.0 GENERAL SITE INFORMATION

SITE NAME: City of Kermit-PWS ID# 2480001			
ADDRESS: P.O. Drawer P (Mailing) 110 South Tornillo Street (Physical)			
CITY: Kermit	ZIP: 79745	COUNTY: Winkler	CONG. DIST: 23
PHYSICAL LOCATION (directions to site): From Highway 302, proceed north on Highway 18 (Poplar Street). Then take a left on East Austin Street and another left on South Tornillo. The physical address is 110 South Tornillo.			
TYPE OF OWNERSHIP _X_ Municipal ___ Private ___ Federal ___ Indian Nation ___ State County Other _____			

SITE STATUS: _X_ Active ___ Inactive ___ (not specified) ___7_____ # of employees (if active)	YEARS OF OPERATION ___ Unknown ___1938_____ / ___ Present_____ Begin End
EPA ID # ___Pending_____ State SWR # _____ Other # ___PWS ID# 2480001___	
Site Owner (if available): City of Kermit	
Site Operator (if available): Freddie Mac Jones	

Description of site activities
(e.g. manufacturing plant, abandoned refinery, etc.)

This site is a public water supply system in the city of Kermit. The groundwater is extracted from 12 wells. These wells are distinguished by a lettering system which ranges from G2480001A to G2480001O with wells N and O being the same well. The groundwater is taken from two aquifers, the Alluvium and the Santa Rosa aquifers (Ref 1). The well water is then disinfected in two chlorination stations before it is stored in one of four concrete tanks located at two pump houses. The pump houses, Underwood and Walton, are used to pump the water into elevated storage tanks to await delivery to the residents (Ref 1). Wells A, B, D, E, and H are pumped to the Underwood pump house (See photographs 1-6) and wells F, G, I, J, L, M, and N/O are pumped to the Walton pump house (See photographs 7-13).

Comments
Wells D and G are on demand status which means they are used when there is a demand for more water in the Kermit area (Ref 7). Well C is abandoned and well K is plugged (Ref 7).

2.0 SITE SCREENING INFORMATION

Date:	11/6/02	Time:	11:00 am
TCEQ Personnel:	Meagan Haws and John Syer, SSDAP		

The City of Kermit Public Water Supply Corporation has a total of fourteen wells. Two are no longer active and the other twelve were visited during this Pre-CERCLIS site visit. Mr. Mark Coburn, an employee of the Kermit PWS, accompanied SSDAP team members. All twelve wells and the two pump houses were observed, located with a Global Positioning System (GPS), and photographed for documentation. Mr. Coburn offered information about each well while in the field, and Mr. Freddie Mac Jones, Kermit PWS operator, was informative also.

3.0 RANK (Seriousness of Situation)

[ ] 1 **Low Potential Hazard** - No waste source(s) identified and/or limited or no targets identified.

[ ] 2 **Low to Moderate Potential Hazard** - May have a waste source(s) and/or limited or no targets identified.

[ ] 3 **Moderate Potential Hazard** - Potential waste source(s), potential targets are present in the area but no release is suspected.

[ ] 4 **Moderate to High Potential Hazard** - Potential waste source(s) identified, a release may be suspected and potential targets are present in the area.

[X] 5 **High Potential Hazard** - Potential waste source(s) identified, a release is strongly suspected or observed, targets are present in the area and may be impacted. Sites in this category are believed to require immediate attention by EPA.

[ ] 6 **Other** - Sites that for various reasons, do not fit into one of the above scoring criteria. An explanation is attached.

4.0 HAZARD DESCRIPTION (e.g. details on sources, contaminants, historical discharges, waste management and chemical use, threat to public and/or environment)

Two techniques have been used to collect samples at this site. One method of sample collection is from the pump houses where wells have been blended together. The second method is taking samples directly from the individual wells. Contamination is present is both methods of sample collection.

On 7/6/99, 8/23/99, 5/2/00 and 3/8/01 the samples collected at the Underwood pump house had elevated levels of bromoform, and trichloroethene (TCE). On 3/8/01, the Underwood pump house also had elevated levels of tertachloroethene (PCE) and dibromochloromethane. On 7/6/99, the Walton pump house had a level of 0.0006 ppm of bromoform. On 5/2/00, the Walton pump house had elevated levels of bromoform, dibromochloromethane, and tertachloroethene (PCE). On 12/18/00, the Walton pump house had increased levels of bromoform, dibromochloromethane, and tetrachloroethene (PCE), bromodichloromethane and an unidentified compound.

The individual wells that had samples collected were wells A, B, E, G, H, and J. Well B had 0.266 ppm of manganese on 3/28/00. Well E had 0.0007 ppm of methylene chloride (DCM) on 8/23/99. Well G had 0.0581 ppm of manganese on 3/28/00. Well J had 0.0241 ppm of manganese on 3/28/00.

The US EPA National Primary Drinking Water Standards for tetrachloroethylene aka tetrachloroethene (PCE) is 0.005 ppm; trichloroethylene aka trichloroethene (TCE) is 0.005 ppm (Ref 2). On the Agency for Toxic Substances and Disease Registry ToxFAQs, the EPA set 0.1 ppm for bromoform (Ref 4); 0.1 ppm for dibromochloromethane aka chlorodibromomethane (Ref 4); 0.1 ppm for bromodichloromethane; methylene chloride level is 10 ppm for one day or 2 ppm for 10 days in drinking water (Ref 5).

According to 30 TAC, Chapter 290.105(b), the secondary constituent level for manganese is 0.05 ppm (Ref 3).

Please refer to Figure 1 for a tabulated format of sample results.

Figure 1. Table of sample analysis for Kermit Public Water Supply Corporation, units are ppm, same as mg/l.

	3/8/01 Underwood 001	12/18/00 Walton 002	5/2/00 Walton 002	5/2/00 Underwood 001	8/23/99 Underwood 001	7/6/99* Walton 002	7/6/99* Underwood 001
Methylene chloride (DCM)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Tetrachloroethene (PCE)	0.0005	0.0013	0.0006	<0.0005	<0.0005	<0.0005	<0.0005
Trichloroethene (TCE)	0.0009	<0.0005	<0.0005	0.0007	0.0006	<0.0005	0.0006
Bromodichloromethane	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Dibromochloromethane	0.0006	0.0016	0.0007	<0.0005	<0.0005	<0.0005	<0.0005
Bromoform	0.0030	0.0022	0.001	0.0016	0.0014	0.0006	0.0009

Wells A, B, D, E, and H pump to Underwood, while wells F, G, I, J, L, M, and N/O pump to Walton

	3/28/00 Well B	3/28/00 Well G	3/28/00 Well J
Manganese	0.266	0.0581	0.0241

	5/2/00 Houston/ Cedar Raw	8/23/99 Magnolia & Halley Well E	8/23/99 Texas & Kermit & Halley Well H	8/23/99 Underwood Halley Well A	8/23/99 Arkansas & Halley Well B
Methylene chloride (DCM)	<0.0005	0.0007	<0.0005	<0.0005	<0.0005
Tetrachloroethene (PCE)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Trichloroethene (TCE)	<0.0005	<0.0005	0.0009	<0.0005	<0.0005
Bromodichloromethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Dibromochloromethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Bromoform	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

5.0 SITE FEATURES

Potential Waste Sources:

	Ponds, Lagoons, Surface Impoundments		Drums
	Contaminated Soil		Pits
	Transformers		Landfills
	Waste Piles	X	No Sources Identified
	Storage Tanks (above & below)		Other

Describe sources and releases (e.g. #drums, size of impoundment, leaking drums, ruptured tank, containment)
There is one dry cleaners named Quality Cleaners within Kermit City Limits. According to the owner, Paul Bentley, the cleaners use a petroleum based solvent to clean the clothes they receive from area residents. Quality Cleaners is located about one-half mile from wells A, B, D, E, H, L, and M. There is an automotive repair shop located within one-quarter mile of Well A, D, E, F, and N/O. Two other automotive repair shops located within one-half mile of wells L and M. There was no evidence of hazardous substances being disposed, stored or treated at the City of Kermit Public Water Supply Corporation.

6.0 TARGETS

Describe targets and proximity to wastes (lagoon draining to creek, 10 homes within 200 feet, stressed vegetation and contamination at homes, SW intakes, nearest public and private drinking water wells, etc.)
The City of Kermit PWS has 2,357 connections serving 5,714 people (Ref 8). Wells A, B, H, I, and J are located in areas without residences, while wells E, F, L, M, and N/O are located within 200 feet of residential homes. Well D is situated within Winkler County Cemetery and well G is located in Winkler County Park. There are no surface water intakes in Kermit and almost all of the residents are on public water. The few wells on residential properties are used for irrigation and would be approximately 60 feet deep according to Mr. Freddie Mac Jones. The depth to water in the Kermit area is about 50 feet. There are four schools with total of approximately 1500 students located within four miles of the City of Kermit Public Water Supply Corporation.

7.0 SITE LOCATION MAPS

(drainage direction, sensitive environments, topography)

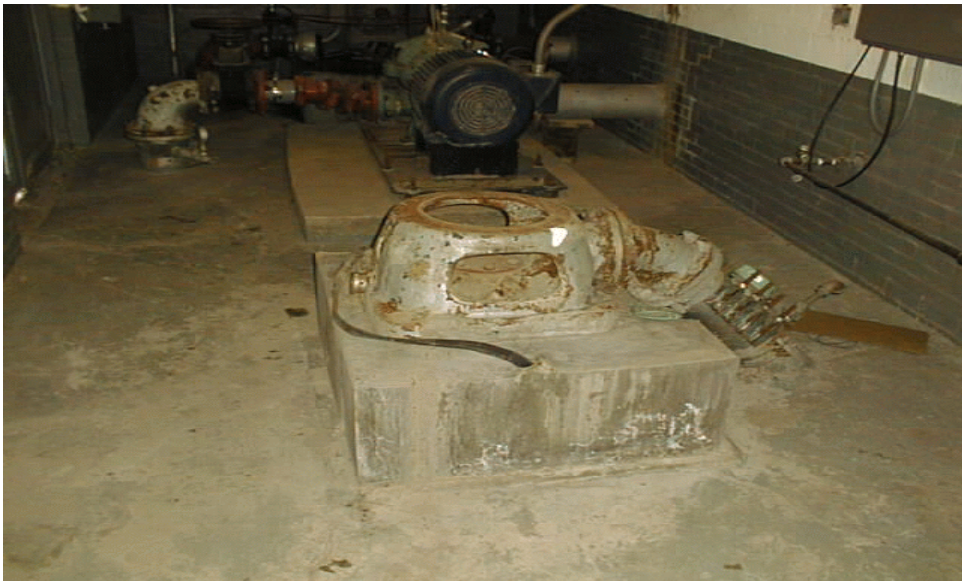
8.0 SITE FEATURE MAP

(source areas, orientation)

9.0 SITE PHOTOGRAPHS

Site: City of Kermit PWS ID# 2480001, Kermit, Texas
Photographer: Meagan Haws, TCEQ
Date: 11/6/2002

Photograph 1 - Underwood Pump House, facing south.



Photograph 2 - Well A, located inside Underwood Pump House, facing east.

Site: City of Kermit PWS ID# 2480001, Kermit, Texas
Photographer: Meagan Haws, TCEQ
Date: 11/6/2002

Photograph 3 - Well B - No surrounding residents, cemetery to the south, facing north.

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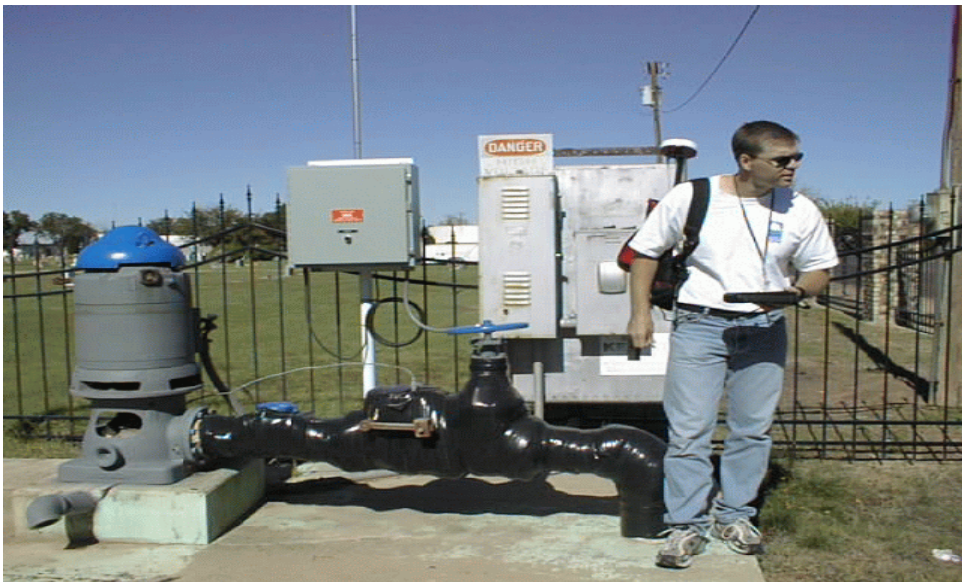
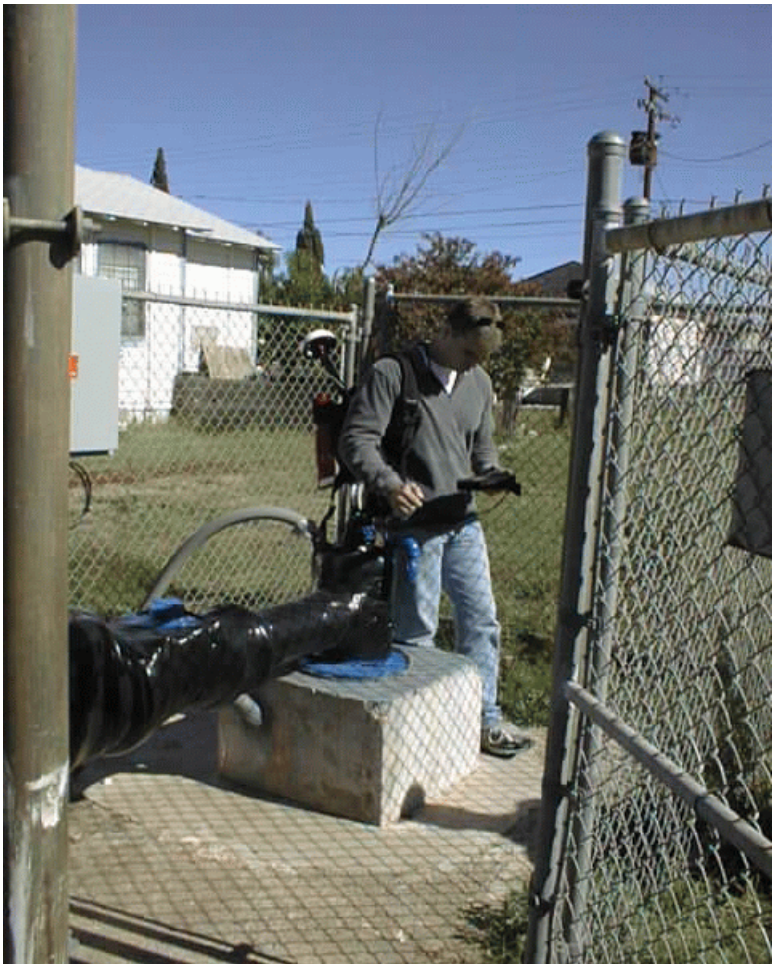
Photographer: Meagan Haws, TCEQ
Date: 11/6/2002



Photograph 4 - Well D, located within the Winkler County Cemetery, facing north.

Site: City of Kermit PWS ID# 2480001, Kermit, Texas
Photographer: Meagan Haws, TCEQ
Date: 11/6/2002



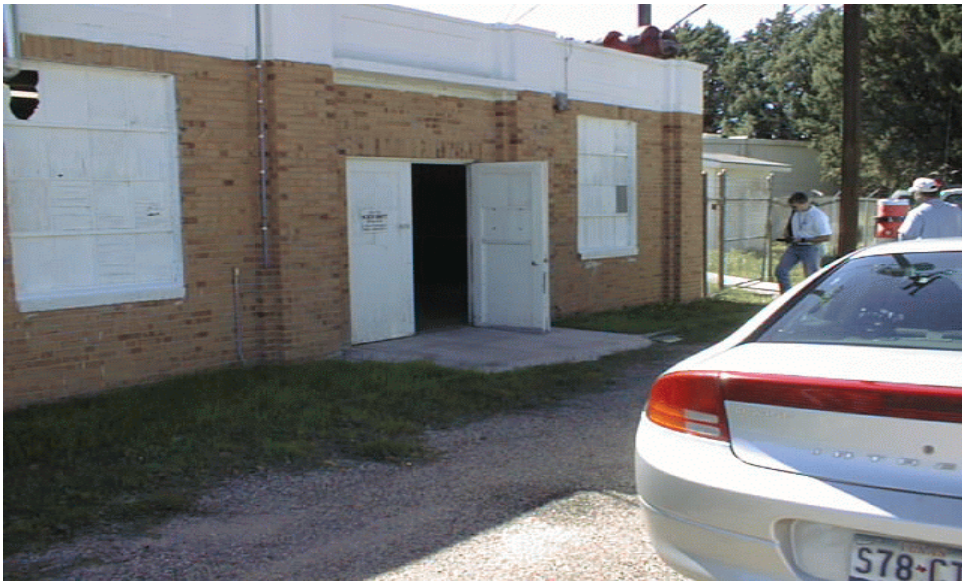
Photograph 5 - Well E, residential properties surrounding well, facing east.

Site: City of Kermit PWS ID# 2480001, Kermit, Texas

Photographer: Meagan Haws, TCEQ
Date: 11/6/2002

Photograph 6 - Well H, lowest elevation well in the city limits, facing east.

Site: City of Kermit PWS ID# 2480001, Kermit, Texas
Photographer: Meagan Haws, TCEQ
Date: 11/6/2002



Photograph 7 - Walton Pump House, facing southwest.

Photograph 8 - Well F, residences surrounding well, facing west.

Site: City of Kermit PWS ID# 2480001, Kermit, Texas
Photographer: Meagan Haws, TCEQ

Date: 11/6/2002

Photograph 9 - Well G, within Winkler County Park, facing west.

Photograph 10 - Well I, located near Walton Pump House, facing west.

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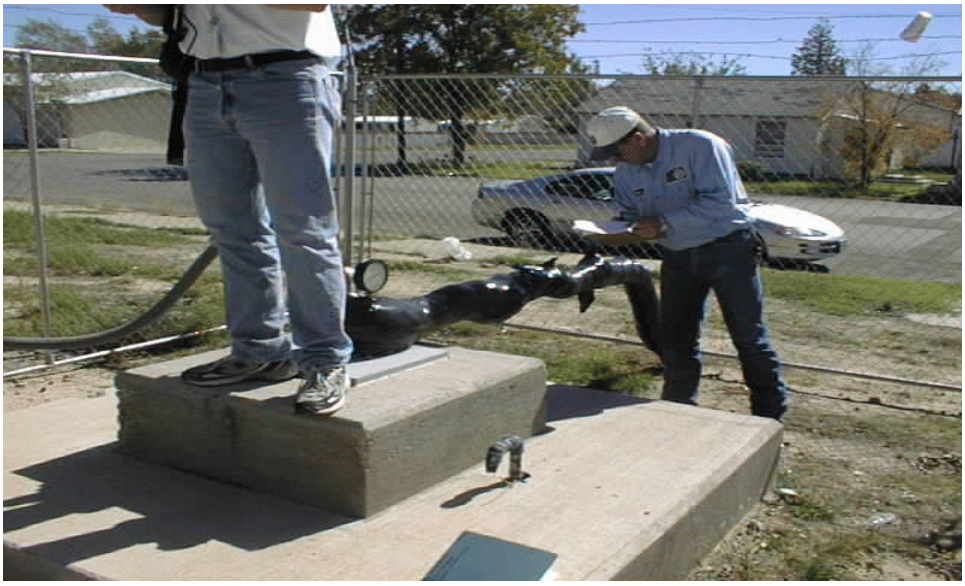
Photographer: Meagan Haws, TCEQ
Date: 11/6/2002

Photograph 11 - Well L, has a pump but also has downhole problems, facing north.



Photograph 12 - Well M, lowest volume well, facing southeast.

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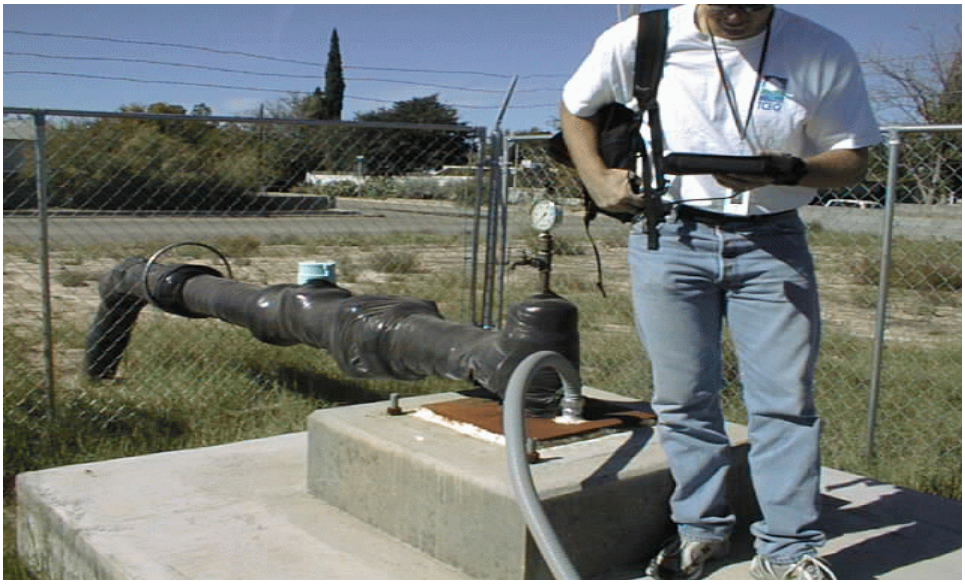
Photographer: Meagan Haws, TCEQ
Date: 11/6/2002



Photograph 13 - Well N/O, newest well, facing northwest.